



Town of Burlington

Network Infrastructure/Enterprise Security Solutions
Fiscal Year 2021
MIS Department

Capital Improvements to be funded

Project #1

5-Year Network Infrastructure plan

- Total amount requested:
\$1,500,000.00
- Amount per year: \$300,000.00

Project #2

5-Year Enterprise Security Solution

- Total amount requested:
\$500,000.00
- Amount per year: \$100,000.00

Estimated Total Project cost (not to exceed) : \$2,000,000.00

Network Infrastructure plan

- Replacement and upgrade of existing network equipment that is reaching its end of life, or support.
- Installation of new core and edge network switches.
- Upgrade of Voice over IP Call Manager systems, Unified Communications System, Network Management Software, Wireless Controllers, Identity Service Engine.
- Installation of new Wireless Access Points.
- Phones Replacement.
- Support and Warranty renewal for existing equipment .

Network Infrastructure refresh plan

Edge Network Switches (60 out 120+)	\$ 389,863.20
Core Network Switches (2)	\$ 74,908.80
Network Management Solution (1)	\$ 16,991.92
Wireless Controller (2)	\$ 58,292.00
Wireless Access Points (400)	\$ 237,980.00
Identity Service Engine (2)	\$ 71,400.00
Unified Communications System	\$306,001.04
Phones (126 out 800+)	\$ 11,599.43
Renewal for existing equipment	\$105,000.00
Professional Services (installations, setup, training)	\$273,365.00

TOTAL \$ 1,545,401.39

Enterprise Security Solution:

Multi-layered integrated network threat intelligence strategy, composed of 6 different technologies within a fabric integrated framework solution to *strengthen cyber-security protection* town-wide.

Solution #1:

*Cloud driven Secure Internet Gateway
that provides protection from Internet
based threats, for users wherever they go.*

- Prevents phishing, malware, and ransomware attacks from malicious or fraudulent websites
- Prevents both web and non-web Botnet Command & Control call-backs from systems that are already compromised
- Provide content filtering for users both on/off town facilities and schools.
- Unifies firewall, secure web gateway, DNS-layer security, cloud access security broker (CASB), and threat intelligence solutions into a single platform to help businesses of all sizes secure their network
- To be used by devices owned by TOB & BPS (+4,500)

Solution #2:

For Endpoints; offers cloud-delivered next-generation antivirus, endpoint protection platform (EPP), and advanced endpoint detection and response (EDR).

- Prevents breaches and blocks malware at the point of entry.
- Detects, contains, and remediates that evade front-line defenses and get inside the network.
- Endpoint Isolation
- Inbuilt integration with Solution #1
- To be installed on devices owned by TOB & BPS (+4,500)

Solution #3:

*Email Security defense against phishing,
business email compromise, and
ransomware.*

- Protects against stealthy malware in attachments.
- Combats malicious links by combining with Solution # 1
- For outgoing ; Email Security has robust data loss prevention and content encryption capabilities to safeguard sensitive information . This helps you comply with government and industry regulations.
- To be used by staff members in TOB & BPS (+1,000)

Solution #4:

API-based Cloud Access Security Broker
(CASB) that secures identities, data, and
apps, combating account compromises, data
security breaches, and cloud app ecosystem
risks

- Monitors Town and Schools cloud environment to detect and secure sensitive information.
- Enforces regulatory compliance of Payment Card Industry (PCI), Family Education Rights and Privacy Act (FERPA), Health Insurance Portability and Accountability Act (HIPAA) , etc.
- Identifies and defends against compromised accounts and malicious insiders.
- To be used by staff members in TOB & BPS (+1,000)

Solution #5:

Threat intelligence organization, tat provides superior protection for customers, products, and services. Encompasses five key areas:

Detection Research, Threat Intelligence, Engine Development, Vulnerability Research and Development, and Outreach.

- One of the largest threat detection teams in the world, that gets fed from a wide range of sources, such as messages, web requests and malware samples, daily.
- Patented multiple learning machine learning model that provides real-time intelligence updates to detect and prevent attacks.
- Provides a comprehensive and proactive approach to network security
- All Security solutions mentioned before utilize this threat intelligence, providing fast and effective security solutions

Solution #6:

Next generation Firewall that inspects incoming and outgoing network traffic, that according to rules, permits or denies access from or to the internet in order to block malicious traffic such as hackers and viruses.

- Delivers top-rated protection, high performance inspection to clear-texted and encrypted (ssl) traffic.
- Provides comprehensive visibility and advanced layer 7 security, including threat protection and intrusion prevention.
- Industry Regulations compliance with:
Family Educational Rights and Privacy Act (FERPA)
Children's Internet Protection Act (CIPA)
Payment Card Industry Data Security Standard (PCI-DSS)
Health Insurance Portability and Accountability Act (HIPAA)
The North American Electric Reliability Corporation Critical Infrastructure Protection (NERC CIP) for the power grid and underlying SCADA networks
- Currently evaluating 3 of the top Gartner recognized firewall appliances to better secure Police, Schools and Town network perimeter.

Enterprise Security Solution

Solution #1	\$ 63,410.40
Solution #2	\$ 66,887.40
Solution #3	\$ 77,308.80
Solution #4	\$ 87,241.80
Solution #5 (included as part of package)	\$ 0.00
Solution #6	\$226,637.38
TOTAL	\$ 521,485.78



Questions & Answers